TECHNICAL DATA SHEET · TDS-MGCL-EN

Magnesium Chloride Hexahydrate

$MgCl_2·6H_2O$ — white flakes, ≥ 46.5 % $MgCl_2$. Refined for magnesia products, water treatment, de-icing and Sorel cement.

CAS No. 7791-18-6 | HS Code 28273100 | White to off-white flakes

GRADE
White Grade
$MgCl_2$ ≥ 46.5 %
Flake / crystal / powder

Version V1.0 · Effective 2026-10-26

CHEMICAL NAME	MOLECULAR FORMULA	MOLECULAR WEIGHT	CAS / EC NO.	DOCUMENT VERSION
Magnesium Chloride Hexahydrate	$MgCl_2·6H_2O$	203.30 g/mol	7791-18-6 / 232-094-6	V1.0

01 TECHNICAL SPECIFICATIONS

High-solubility industrial grade. Every batch is verified by an independent laboratory against export standards before shipment.

TEST ITEM	UNIT	SPECIFICATION	TEST METHOD
$MgCl_2$ content	%	≥ 46.5	GB/T 672-2006
Calcium (Ca^{2+})	%	≤ 0.15	GB/T 672-2006
Sulphate (SO_4^{2-})	%	≤ 0.5	GB/T 672-2006
Alkali metal chloride (KCl + NaCl)	%	≤ 0.5	GB/T 672-2006
Water insoluble matter	%	≤ 0.1	GB/T 672-2006
Chroma	Hazen	≤ 50	GB/T 3143

HS CODE	PACKING	LOADING	DOCUMENTS
28273100	25 kg	Consolidated	COA + SDS
export classification	PE-laminated bag · super sack	with additives & elastomers	issued per shipment

Purity is expressed as $MgCl_2$ content. $MgCl_2·6H_2O$ equivalent = $MgCl_2$ ÷ 46.8 % (theoretical maximum). White to off-white flakes; soluble in water, deliquescent in humid air. Non-toxic and non-hazardous.

02 KEY FEATURES & ADVANTAGES

High $MgCl_2$ content
≥ 46.5 % $MgCl_2$ with tightly controlled calcium and sulphate — low residue, consistent lot to lot.

Good water solubility
Fast dissolution and high solution clarity — what coagulation and brine preparation actually need.

Deliquescent by design
Readily takes up moisture, which suits dust suppression and de-icing; sealed storage required.

Batch verified
Every lot tested by an independent laboratory, with a COA issued against the specification above.

03 APPLICATIONS & FORMS SUPPLIED

WHERE IT IS USED

- **Magnesium compounds** — feedstock for carbonate, hydroxide and oxide
- **Water treatment** — coagulant and purification agent
- **De-icing** — road and industrial snow-melting agent
- **Sorel cement** — binder for magnesite flooring and fireproof board
- **Metallurgy** — flux and processing aid

FORMS SUPPLIED

- **White flakes** — standard export form
- **Translucent monoclinic crystals**
- **Fine powder**
- Consolidated loading with PVC additives and elastomers on one order.

04 HANDLING, STORAGE, PACKAGING & COMPLIANCE

STORAGE & HANDLING

- **Storage:** keep closed, cool and dry — the product is deliquescent.
- **Handling:** avoid contact with skin and eyes; wash hands after operation.
- **Transport:** general chemical product; protect from moisture and package damage.

PACKAGING

- **Standard:** 25 kg PE-laminated bag with inner plastic liner.
- **Bulk:** super sack available on request.
- Reseal opened bags immediately to prevent caking.

Non-Toxic & Non-Hazardous
Not classified as dangerous goods for transport.

EC No. 232-094-6
Listed substance; SDS available on request.

Export Batch COA
Independent laboratory report issued per lot.

For complete safety information refer to the corresponding Safety Data Sheet (SDS).

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The data contained in this document are typical values obtained under standard laboratory conditions and are given for reference only. Actual performance depends on the customer's specific formulation, processing conditions and application environment. The customer shall verify the suitability of the product through independent tests. FINE-ADD reserves the right to update this document without prior notice.